

21. Which of the following is the correct electronic configuration of Nickel with an atomic number 28?

$1s^2 2s^2 2p^4 3s^2 3p^8 3d^{10}$

$1s^2 2s^2 2p^6 3s^2 3p^6 3d^{10}$

$1s^2 2s^2 2p^4 3s^2 3p^6 3d^{10} 4s^2$

$1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$

Answer (d).

22. How many electrons does the outermost shell of neon have?

4

8

2

16

Answer (b).

23. Which of the following determines the chemical properties of an element?

Number of electrons

Number of neutrons

Number of protons

All of the above

Answer (a).

24. The number of protons in a negatively charged atom (anion) is
more than the atomic number of the element
less than the atomic number of the element
more than the number of electrons in the atom
less than the number of electrons in the atom

Answer (d).

25. Atoms which have same mass number but different atomic number are called
isotopes
isomers
isotones
isobars

Answer (d).

26. The atomic theory of matter was first proposed by
John Dalton
Rutherford
J. J. Thomson
Niels Bohr

Answer (a).